

Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 1 through 10 of 55 returned.

☐ 1. Document ID: US 7030887 B2

L2: Entry 1 of 55

File: USPT

Apr 18, 2006

US-PAT-NO: 7030887

DOCUMENT-IDENTIFIER: US 7030887 B2

TITLE: Methods and systems for transparent depth sorting

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050057574 A1

March 17, 2005

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 2. Document ID: US 7030878 B2

L2: Entry 2 of 55

File: USPT

Apr 18, 2006

US-PAT-NO: 7030878

DOCUMENT-IDENTIFIER: US 7030878 B2

TITLE: Method and apparatus for generating a shadow effect using shadow volumes

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050206647 A1

September 22, 2005

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 7030877 B1

L2: Entry 3 of 55

File: USPT

Apr 18, 2006

US-PAT-NO: 7030877

DOCUMENT-IDENTIFIER: US 7030877 B1

TITLE: Computer graphics processing system, computer memory, and method of use with computer graphics processing system utilizing hierarchical image depth buffer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 6999076 B2

L2: Entry 4 of 55

File: USPT

Feb 14, 2006

US-PAT-NO: 6999076

DOCUMENT-IDENTIFIER: US 6999076 B2

TITLE: System, method, and apparatus for early culling

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030080959 A1

May 1, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6975317 B2

L2: Entry 5 of 55

File: USPT

Dec 13, 2005

US-PAT-NO: 6975317

DOCUMENT-IDENTIFIER: US 6975317 B2

TITLE: Method for reduction of possible renderable graphics primitive shapes for rasterization

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6961057 B1

L2: Entry 6 of 55

File: USPT

Nov 1, 2005

US-PAT-NO: 6961057

DOCUMENT-IDENTIFIER: US 6961057 B1

TITLE: Method and apparatus for managing and accessing depth data in a computer graphics system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 6956578 B2

L2: Entry 7 of 55

File: USPT

Oct 18, 2005

US-PAT-NO: 6956578

DOCUMENT-IDENTIFIER: US 6956578 B2

TITLE: Non-flushing atomic operation in a burst mode transfer data storage access environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 8. Document ID: US 6954208 B2

L2: Entry 8 of 55

File: USPT

Oct 11, 2005

US-PAT-NO: 6954208

DOCUMENT-IDENTIFIER: US 6954208 B2

TITLE: Depth write disable for rendering

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 9. Document ID: US 6952206 B1

L2: Entry 9 of 55

File: USPT

Oct 4, 2005

US-PAT-NO: 6952206

DOCUMENT-IDENTIFIER: US 6952206 B1

TITLE: Graphics application program interface system and method for accelerating graphics processing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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☐ 10. Document ID: US 6943791 B2

L2: Entry 10 of 55

File: USPT

Sep 13, 2005

US-PAT-NO: 6943791

DOCUMENT-IDENTIFIER: US 6943791 B2

TITLE: Z-slope test to optimize sample throughput

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L1 and compar\$	55

Display Format:

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 11 through 20 of 55 returned.

☐ 11. Document ID: US 6906715 B1

L2: Entry 11 of 55

File: USPT

Jun 14, 2005

US-PAT-NO: 6906715

DOCUMENT-IDENTIFIER: US 6906715 B1

TITLE: Shading and texturing 3-dimensional computer generated images

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 12. Document ID: US 6900803 B2

L2: Entry 12 of 55

File: USPT

May 31, 2005

US-PAT-NO: 6900803

DOCUMENT-IDENTIFIER: US 6900803 B2

TITLE: Method for rasterizing graphics for optimal tiling performance

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 13. Document ID: US 6894689 B1

L2: Entry 13 of 55

File: USPT

May 17, 2005

US-PAT-NO: 6894689

DOCUMENT-IDENTIFIER: US 6894689 B1

TITLE: Occlusion culling method and apparatus for graphics systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 14. Document ID: US 6812927 B1

L2: Entry 14 of 55

File: USPT

Nov 2, 2004

US-PAT-NO: 6812927

DOCUMENT-IDENTIFIER: US 6812927 B1

TITLE: System and method for avoiding depth clears using a stencil buffer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 15. Document ID: US 6774895 B1

L2: Entry 15 of 55

File: USPT

Aug 10, 2004

US-PAT-NO: 6774895

DOCUMENT-IDENTIFIER: US 6774895 B1

TITLE: System and method for depth clamping in a hardware graphics pipeline

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 16. Document ID: US 6762758 B2

L2: Entry 16 of 55

File: USPT

Jul 13, 2004

US-PAT-NO: 6762758

DOCUMENT-IDENTIFIER: US 6762758 B2

TITLE: System, method, and apparatus for compression of video data using offset values

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 17. Document ID: US 6756986 B1

L2: Entry 17 of 55

File: USPT

Jun 29, 2004

US-PAT-NO: 6756986

DOCUMENT-IDENTIFIER: US 6756986 B1

TITLE: Non-flushing atomic operation in a burst mode transfer data storage access environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 18. Document ID: US 6747657 B2

L2: Entry 18 of 55

File: USPT

Jun 8, 2004

US-PAT-NO: 6747657

DOCUMENT-IDENTIFIER: US 6747657 B2

**** See image for Certificate of Correction ****

TITLE: Depth write disable for zone rendering

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 19. Document ID: US 6744433 B1

L2: Entry 19 of 55

File: USPT

Jun 1, 2004

US-PAT-NO: 6744433

DOCUMENT-IDENTIFIER: US 6744433 B1

TITLE: System and method for using and collecting information from a plurality of depth layers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 20. Document ID: US 6727900 B1

L2: Entry 20 of 55

File: USPT

Apr 27, 2004

US-PAT-NO: 6727900

DOCUMENT-IDENTIFIER: US 6727900 B1

TITLE: Semiconductor integrated circuit device

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Terms	Documents
L1 and compar\$	55

Display Format:

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

First Hit

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 21 through 30 of 55 returned.☐ 21. Document ID: US 6724391 B1

L2: Entry 21 of 55

File: USPT

Apr 20, 2004

US-PAT-NO: 6724391

DOCUMENT-IDENTIFIER: US 6724391 B1

**** See image for Certificate of Correction ****

TITLE: Mechanism for implementing Z-compression transparently

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 22. Document ID: US 6697063 B1

L2: Entry 22 of 55

File: USPT

Feb 24, 2004

US-PAT-NO: 6697063

DOCUMENT-IDENTIFIER: US 6697063 B1

TITLE: Rendering pipeline

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 23. Document ID: US 6683607 B1

L2: Entry 23 of 55

File: USPT

Jan 27, 2004

US-PAT-NO: 6683607

DOCUMENT-IDENTIFIER: US 6683607 B1

TITLE: Method for displaying three-dimensional objects and a computer-readable storage medium storing a program for achieving the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 24. Document ID: US 6680737 B2

L2: Entry 24 of 55

File: USPT

Jan 20, 2004

US-PAT-NO: 6680737

DOCUMENT-IDENTIFIER: US 6680737 B2

TITLE: Z test and conditional merger of colliding pixels during batch building

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. De
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☐ 25. Document ID: US 6664962 B1

L2: Entry 25 of 55

File: USPT

Dec 16, 2003

US-PAT-NO: 6664962

DOCUMENT-IDENTIFIER: US 6664962 B1

TITLE: Shadow mapping in a low cost graphics system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. De
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☐ 26. Document ID: US 6664959 B2

L2: Entry 26 of 55

File: USPT

Dec 16, 2003

US-PAT-NO: 6664959

DOCUMENT-IDENTIFIER: US 6664959 B2

TITLE: Method and apparatus for culling in a graphics processor with deferred shading

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. De
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☐ 27. Document ID: US 6650327 B1

L2: Entry 27 of 55

File: USPT

Nov 18, 2003

US-PAT-NO: 6650327

DOCUMENT-IDENTIFIER: US 6650327 B1

**** See image for Certificate of Correction ****

TITLE: Display system having floating point rasterization and floating point framebuffering

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM/C	Draw. De
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☐ 28. Document ID: US 6646639 B1

L2: Entry 28 of 55

File: USPT

Nov 11, 2003

US-PAT-NO: 6646639

DOCUMENT-IDENTIFIER: US 6646639 B1

TITLE: Modified method and apparatus for improved occlusion culling in graphics systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 29. Document ID: US 6636214 B1

L2: Entry 29 of 55

File: USPT

Oct 21, 2003

US-PAT-NO: 6636214

DOCUMENT-IDENTIFIER: US 6636214 B1

TITLE: Method and apparatus for dynamically reconfiguring the order of hidden surface processing based on rendering mode.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 30. Document ID: US 6636212 B1

L2: Entry 30 of 55

File: USPT

Oct 21, 2003

US-PAT-NO: 6636212

DOCUMENT-IDENTIFIER: US 6636212 B1

TITLE: Method and apparatus for determining visibility of groups of pixels

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L1 and compar\$

55

Display Format: TI

[Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 31 through 40 of 55 returned.

☐ 31. Document ID: US 6630933 B1

L2: Entry 31 of 55

File: USPT

Oct 7, 2003

US-PAT-NO: 6630933

DOCUMENT-IDENTIFIER: US 6630933 B1

TITLE: Method and apparatus for compression and decompression of Z data

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 32. Document ID: US 6618048 B1

L2: Entry 32 of 55

File: USPT

Sep 9, 2003

US-PAT-NO: 6618048

DOCUMENT-IDENTIFIER: US 6618048 B1

TITLE: 3D graphics rendering system for performing Z value clamping in near-Z range to maximize scene resolution of visually important Z components

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 33. Document ID: US 6614444 B1

L2: Entry 33 of 55

File: USPT

Sep 2, 2003

US-PAT-NO: 6614444

DOCUMENT-IDENTIFIER: US 6614444 B1

TITLE: Apparatus and method for fragment operations in a 3D-graphics pipeline

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 34. Document ID: US 6580427 B1

L2: Entry 34 of 55

File: USPT

Jun 17, 2003

US-PAT-NO: 6580427

DOCUMENT-IDENTIFIER: US 6580427 B1

**** See image for Certificate of Correction ****

TITLE: Z-compression mechanism

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 35. Document ID: US 6559852 B1

L2: Entry 35 of 55

File: USPT

May 6, 2003

US-PAT-NO: 6559852

DOCUMENT-IDENTIFIER: US 6559852 B1

TITLE: Z test and conditional merger of colliding pixels during batch building

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 36. Document ID: US 6552723 B1

L2: Entry 36 of 55

File: USPT

Apr 22, 2003

US-PAT-NO: 6552723

DOCUMENT-IDENTIFIER: US 6552723 B1

TITLE: System, apparatus and method for spatially sorting image data in a three-dimensional graphics pipeline

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 37. Document ID: US 6476807 B1

L2: Entry 37 of 55

File: USPT

Nov 5, 2002

US-PAT-NO: 6476807

DOCUMENT-IDENTIFIER: US 6476807 B1

TITLE: Method and apparatus for performing conservative hidden surface removal in a graphics processor with deferred shading

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 38. Document ID: US 6448967 B1

L2: Entry 38 of 55

File: USPT

Sep 10, 2002

US-PAT-NO: 6448967

DOCUMENT-IDENTIFIER: US 6448967 B1

TITLE: Z-Buffer pre-test for 3D graphics performance enhancement

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 39. Document ID: US 6448966 B1

L2: Entry 39 of 55

File: USPT

Sep 10, 2002

US-PAT-NO: 6448966

DOCUMENT-IDENTIFIER: US 6448966 B1

TITLE: Method for improving 3D computer graphic performance by pre-sorting

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 40. Document ID: US 6384822 B1

L2: Entry 40 of 55

File: USPT

May 7, 2002

US-PAT-NO: 6384822

DOCUMENT-IDENTIFIER: US 6384822 B1

TITLE: Method for rendering shadows using a shadow volume and a stencil buffer

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L1 and compar\$

55

Display Format: TI

[Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

First Hit

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 41 through 50 of 55 returned.☐ 41. Document ID: US 6348919 B1

L2: Entry 41 of 55

File: USPT

Feb 19, 2002

US-PAT-NO: 6348919

DOCUMENT-IDENTIFIER: US 6348919 B1

TITLE: Graphics system with optimized use of unified local and frame buffers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCM	Draw. De
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☐ 42. Document ID: US 6271851 B1

L2: Entry 42 of 55

File: USPT

Aug 7, 2001

US-PAT-NO: 6271851

DOCUMENT-IDENTIFIER: US 6271851 B1

TITLE: Z-buffer pre-test for 3D graphic performance enhancement

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCM	Draw. De
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☐ 43. Document ID: US 6268875 B1

L2: Entry 43 of 55

File: USPT

Jul 31, 2001

US-PAT-NO: 6268875

DOCUMENT-IDENTIFIER: US 6268875 B1

TITLE: Deferred shading graphics pipeline processor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCM	Draw. De
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☐ 44. Document ID: US 6252608 B1

L2: Entry 44 of 55

File: USPT

Jun 26, 2001

US-PAT-NO: 6252608

DOCUMENT-IDENTIFIER: US 6252608 B1

**** See image for Certificate of Correction ****

TITLE: Method and system for improving shadowing in a graphics rendering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 45. Document ID: US 6204859 B1

L2: Entry 45 of 55

File: USPT

Mar 20, 2001

US-PAT-NO: 6204859

DOCUMENT-IDENTIFIER: US 6204859 B1

TITLE: Method and apparatus for compositing colors of images with memory constraints for storing pixel data

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 46. Document ID: US 6115047 A

L2: Entry 46 of 55

File: USPT

Sep 5, 2000

US-PAT-NO: 6115047

DOCUMENT-IDENTIFIER: US 6115047 A

TITLE: Method and apparatus for implementing efficient floating point Z-buffering

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 47. Document ID: US 6075544 A

L2: Entry 47 of 55

File: USPT

Jun 13, 2000

US-PAT-NO: 6075544

DOCUMENT-IDENTIFIER: US 6075544 A

TITLE: Method and apparatus for accelerating rendering by coalescing data accesses

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 48. Document ID: US 5870097 A

L2: Entry 48 of 55

File: USPT

Feb 9, 1999

US-PAT-NO: 5870097

DOCUMENT-IDENTIFIER: US 5870097 A

**** See image for Certificate of Correction ****

TITLE: Method and system for improving shadowing in a graphics rendering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. De
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☐ 49. Document ID: US 5864342 A

L2: Entry 49 of 55

File: USPT

Jan 26, 1999

US-PAT-NO: 5864342

DOCUMENT-IDENTIFIER: US 5864342 A

**** See image for Certificate of Correction ****

TITLE: Method and system for rendering graphical objects to image chunks

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 50. Document ID: US 5854631 A

L2: Entry 50 of 55

File: USPT

Dec 29, 1998

US-PAT-NO: 5854631

DOCUMENT-IDENTIFIER: US 5854631 A

TITLE: System and method for merging pixel fragments based on depth range values

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Terms

Documents

L1 and compar\$

55

Display Format: [Change Format](#)[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

[First Hit](#)[Clear](#)[Generate Collection](#)[Print](#)[Fwd Refs](#)[Bkwd Refs](#)[Generate OACS](#)

Search Results - Record(s) 51 through 55 of 55 returned.

☐ 51. Document ID: US 5818456 A

L2: Entry 51 of 55

File: USPT

Oct 6, 1998

US-PAT-NO: 5818456

DOCUMENT-IDENTIFIER: US 5818456 A

TITLE: Computer graphics system with adaptive pixel multisampler

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 52. Document ID: US 5808617 A

L2: Entry 52 of 55

File: USPT

Sep 15, 1998

US-PAT-NO: 5808617

DOCUMENT-IDENTIFIER: US 5808617 A

**** See image for Certificate of Correction ****

TITLE: Method and system for depth complexity reduction in a graphics rendering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 53. Document ID: US 5748863 A

L2: Entry 53 of 55

File: USPT

May 5, 1998

US-PAT-NO: 5748863

DOCUMENT-IDENTIFIER: US 5748863 A

TITLE: Method and system for fast interpolation of depth buffer values in a computer graphics display system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 54. Document ID: US 5734806 A

L2: Entry 54 of 55

File: USPT

Mar 31, 1998

US-PAT-NO: 5734806

DOCUMENT-IDENTIFIER: US 5734806 A

TITLE: Method and apparatus for determining graphical object visibility

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 55. Document ID: US 5724560 A

L2: Entry 55 of 55

File: USPT

Mar 3, 1998

US-PAT-NO: 5724560

DOCUMENT-IDENTIFIER: US 5724560 A

TITLE: Display graphics adapter for processing different pixel sizes in a windowing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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